Reviewer D Carruthers
Date 11/8/15

(Form)/Permit # 2419
Company Name KWB OIL PROP MGT. INC.,
Well # (b) (9)
Locati

TECHNICAL REVIEW

Type Injection Well: (EOR/(SWD)/HC Storage) (New/(Conversion)) ((Active)/Inactive)

Injection: (Continuous/Cyclic)

Approximate # days operating/year
Rate (B/D): Average Maximum 94
Wellhead pressure (psi): Average Maximum 0
Fluid: TDS Sp. Gr. 1.1 (EST) Analyses included: (yes/(no))
Source (formation name)

Geologic Data (all references to depths are below land surface)

Base of Historical Usable Water: 100ft (BASED ON WATER WELL DATA @ 2 MILES TO THE NE)
Base of USDW and how determined: <130 ft (BASED ON WELL LOG (#1-A, SW/4))
Injection Interval: Top 1695 ft; Bottom 1702 ft; Effective Thickness
Formation name MISSISSIPPI Lithology LIME
Porosity (%) Initial Reservoir Pressure Date
Permeability (md)
Confining Zones: Thickness between injection zone and USDW
Lithology
Cumulative shale : thickest shale zone (interval)

Well Data: (all references to depths are below land surface)

Surface Elevation: 856 ft (KB/(GL)) Total ((Depth)/Plugged Back Depth) 2,016 ft.
Date Drilled or to be drilled: 3/27/33 Date converted: 7/20/67
Type logs available on (this well/offset well): (By reference/included)

Test data: (By reference/included)

Construction:	Size (in)	Depth Interval	Sacks of Cement	Hole Size	Cement Interval	How Determined
Surface Csg.	10.00"	0-20'	0			
Intermediate Csg.	—	—	—	—	—	—
Long String Csg.	6.62"	0-1,580'	0			
Liner	5.50"					
Tubing	2.60"		Packer type and depth			1,530 ft

AOR (1/4 mile radius)

Map submitted: (yes/no) Tabulation of Wells Submitted: (yes/no)
Faults Located: (yes/no); (none Present/Distance from injection well)
Number of wells in AOR:
Total (Abandon ; Production ; Injection)
Number of wells in zone of Endangering Influence: Total
Number of wells Requiring Corrective Action: Total (list below)

Well	Type Well	Problem	Corrective Action Required

Maximum Injection Pressure Calculation Pm = (Frac Gradient - (0.433 X Sp.Gr.)) depth

Pm = (0.75 - (0.433 X 1.1)) X 1695 = 464 (psi)

Technical Review (Passed/Failed)

REPORTS A 5.5" LINEAR BUT DOESN'T STATE WHETHER IT WAS EVER CEMENTED